



Road To CDR

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Incremental Design Review October/November 1995



- Review board recommendation: Proceed to detailed design
- Review board recorded 8 primary concerns
 - 4 ECS
 - 4 Project
 - All closed
- 44 RIDs
 - 9 Priority 1
 - 35 Priority 2
 - All closed

IDR Board Concerns Issues Assigned to ECS



- 2 - Provide end-to-end model of system performance - Closed**
 - Workshops held January and February 96**
 - Final results incorporated into Detailed Design Review**
- 3 - Review detailed operations and interface design - Closed**
 - Two GUI Workshops held with DAAC participation**
 - Third workshop scheduled 1 - 2 May 96**
 - Highly successful results with first two sessions**
- 7 - Analyze use of common infrastructure services - Closed**
 - Review held 5 - 6 Feb 96**
 - Results presented during CSS Detailed Design Review**
- 8 - Schedule Design Review of Incremental Track - Closed**
 - Incremental Track Detailed Design Review scheduled 17 - 18 Sep 96**

IDR Board Concerns Issues Assigned to Project



- 1 - Project Policy Issues - Closed**
 - **Technical Direction given to ECS**
- 4 - Project to complete EOSDIS Security Plan - Closed**
 - **Technical Direction given to ECS**
- 5 - Provide Design Pull Statistics To Validate 2X Sizing - Closed**
 - **Validated by AHWGC with ECS Science Office support**
- 6 - Produce Plan for Use of Marginal Capacity - Closed**
 - **Validated by AHWGC with ECS Science Office support**



Detailed Design Phase Activities

- **Extensive interaction with stakeholders**
 - OPS Workshop
 - Modeling Workshops
 - Infrastructure Review
 - External Data Provider Workshop
 - Production Rules Tele-Workshop
- **Design Issue Teams**
 - Cross Release Resolution
 - Cross Subsystem Resolution
- **Learning/Building upon Release A**
- **Leveraging outreach activities**
 - HDF-EOS (University of Illinois)
 - Checkpointed FTP (University of Colorado)

Operations Workshop 17-19 January 1996



Accomplishments

- Most DAACs represented
- DID 605 delivered 4/1/96 with updated workflows
- Very successful interaction between DAACs and ECS. ~ 100 questions and issues raised and addressed
- Resulting design changes addressed at CDR Detailed Design Reviews and ECS Operations session

Prototype Workshop 2

January 96



Accomplishments

- **Four User interface prototypes presented**
 - **ESST, V0 WWW IMS, JEST, UMCP Dynamic Query Prototype**
- **JEST step toward demonstrating Java possibilities**
- **Comments from PW1 incorporated in ESST and V0 WWW IMS**
- **Web work shows good direction, but do not let X/Motif suffer**
- **PW2 comments included in EP 7 objectives**
 - **Client design modifications based on comments**
 - **Evolve web client/Java ESST**
 - **Continue X/Motif track (Release B Baseline)**

Infrastructure Implementation Feasibility Review 5-6 Feb 96



Accomplishments

- Overall approach to resource analysis validated
- Results included in end-to-end performance model
- Detailed design improved by incorporating recommended changes
(Reviewed during CDR Detailed Design Reviews)

End-to-End Modeling Workshops

25 Jan 96 and 21 Feb 96



Accomplishments

- Developed end-to-end model of system performance
- Applied to most processing
 - Push
 - Pull
 - Distribution
- Modeled hardware (processors, LANS, disk throughput)
- Discussed in Modeling/Sizing presentation (19 April 96)

DAS Design Review

11 April 96



Accomplishments

- **Demonstrated design for DAS integration with ECS**
- **Presented results of performance/implementation trade studies and recommended solutions**
- **Agreed to deferred deployment plan for DAS**
 - **Hardware procurement review May 97**
 - **Plan for interim milestone reviews**
 - **Jul '96, Oct '96, Jan '97**
- **No RIDS received**
 - **Few actions**
 - **Substantial positive feedback**

Other Workshops



- **Production Rules Tele-Workshop**
 - **Eight rules developed with instrument teams**
 - **Results incorporated in Production Rules White Paper**
- **External Data Provider Workshop**
 - **Reviewed options with ESDIS and providers for EDP interoperability within Release B timeframe**
 - **Results contained in EDP White Paper**
 - **Summary in External Data Provider presentation (24 Apr 96)**

Release B Documentation



- All documents available on ECS Data Handling System (EDHS)
 - <http://edhs1.gsfc.nasa.gov>
- Total of 47 CDRLs
 - 20 Design Documents
 - 11 ICDS
 - 2 Ops Concept Documents
 - 14 other contractual documents

Summary



- **All IDR Review Board concerns addressed by ECS and Project**
- **All RIDS closed**
- **Extensive interaction with all stakeholders through reviews and workshops**
- **Release B ready for implementation**